maintaining the data needed, and of including suggestions for reducing	completing and reviewing the collect g this burden, to Washington Headquould be aware that notwithstanding a	to average 1 hour per response, includition of information. Send comments restarters Services, Directorate for Informany other provision of law, no person starters	egarding this burden estimate on nation Operations and Reports,	r any other aspect of thi 1215 Jefferson Davis F	is collection of information, Highway, Suite 1204, Arlington	
1. REPORT DATE 2. REPORT TYPE 12 MAR 2012 Conference Pres			ation	3. DATES COVERED 00-00-2011 to 00-00-2012		
4. TITLE AND SUBTITLE				5a. CONTRACT NUMBER		
Data-Driven Modeling of Human Behavior in Military Operations Presented at the 21st Annual Behavior Representation in Modeling &				5b. GRANT NUMBER		
Simulation (BRIMS) Conference, March 12-15, 2012, Amelia Island, FL. 6. AUTHOR(S) John Riedener; Elizabeth Mezzacappa				5c. PROGRAM ELEMENT NUMBER		
				5d. PROJECT NUMBER		
				5e. TASK NUMBER		
				5f. WORK UNIT NUMBER		
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Army, ARDEC, Target Behavioral Response Laboratory,RDAR-EIQ-SD,Building 3518,Picatinny Arsenal,NJ,07806-5000						
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)				10. SPONSOR/MONITOR'S ACRONYM(S)		
				11. SPONSOR/MONITOR'S REPORT NUMBER(S)		
12. DISTRIBUTION/AVAI Approved for publ	LABILITY STATEMENT lic release; distribut	ion unlimited				
13. SUPPLEMENTARY NOTES						
-		Farget Behavioral Re imulation of human l	-	ory to develop	o data-based	
15. SUBJECT TERMS data, human behav Response Laborate		g, verification, validat	ion, non-lethal w	eapons, Tarş	get Behavioral	
16. SECURITY CLASSIFICATION OF: 17. LIMI				18. NUMBER OF PAGES	19a. NAME OF RESPONSIBLE PERSON	
a. REPORT unclassified	b. ABSTRACT unclassified	c. THIS PAGE unclassified	OF ABSTRACT Public Release	1	RESI UNSIBLE FERSUN	

Report Documentation Page

Form Approved OMB No. 0704-0188

UNCLASSIFIED- Approved for Public Release

2007 Malcolm Baldrige National Quality Award Recipient

J. Riedener & E. Mezzacappa

The Armament Research Development & Engineering Center

Data-Driven Modeling of Human Behavior in Military Operations

Innovative Armaments Solutions for Today and Tomorrow



The TBRL Mission

We test PEOPLE! We are looking for TACTICALLY RELEVANT

We always endeavor to use what the Soldier wants as the primary metric

TBRL Capabilities

- 1. Indoor and outdoor testbeds configured and maintained for experimentation
- 2. Equipment, both hardware and software, required for operation, data collection and analysis
- 3. Safety and environmental procedures with approvals required to permit experimentation
- 4. ARDEC Institutional Review Board
- 5. Trained staff to Develop, Conduct and Report on **Human Research**
 - Credentialed research scientists serving as Principal **Investigators**
 - Mechanical, electrical and biomedical engineers
 - Human Research Technicians

Create models of human behavior in response to nonlethal weapons & Validate the models developed for simulations of human behavior







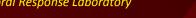










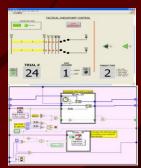












TBRL





